

Title (en)

Refrigeration system with dedicated compressor for hot gas defrost

Title (de)

Kälteanlage mit zum Heissgasabtau zugeordnetem Verdichter

Title (fr)

Système frigorifique avec compresseur spécifiquement destiné au dégivrage par gaz chaud

Publication

EP 1413838 A3 20060621 (EN)

Application

EP 03256708 A 20031023

Priority

US 27790002 A 20021023

Abstract (en)

[origin: US6588221B1] A method of defrosting a refrigeration system having a main compressor connected by a main hot gas discharge line to a condenser, the condenser being connected by a main liquid line to thermal expansion valves and subsequent cooling coils, each thermal expansion valve and cooling coil being in parallel connection with the other thermal expansion valves and cooling coils, and each cooling coil being connected by a suction line to the main compressor, the defrosting method includes passing hot gas from the main hot gas discharge line through a selected cooling coil to defrost same, compressing cooled hot gas which has passed through the cooling coil by means of a separate dedicated defrost compressor, and returning the compressed hot gas to the main hot gas discharge line.

IPC 8 full level

F25B 47/02 (2006.01); **F25B 5/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)

F25B 5/02 (2013.01 - EP US); **F25B 47/022** (2013.01 - EP US); **F25B 2400/19** (2013.01 - EP US); **F25B 2400/22** (2013.01 - EP US)

Citation (search report)

- [XY] US 3766745 A 19731023 - QUICK L
- [Y] US 5842352 A 19981201 - GREGORY CHARLES [CA]
- [A] WO 02066908 A1 20020829 - TEKNOLOGISK INST [DK], et al
- [A] US 3332251 A 19670725 - WATKINS JOHN E

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 6588221 B1 20030708; CA 2445844 A1 20040423; EP 1413838 A2 20040428; EP 1413838 A3 20060621

DOCDB simple family (application)

US 27790002 A 20021023; CA 2445844 A 20031021; EP 03256708 A 20031023